CoE 197-S ME 8 Activity 1

1. Pulling an image

```
\WINDOWS\system32> <mark>docker imag</mark>es
ITORY TAG IMAGE ID CREATED SIZE
PS C:\WINDOWS\system32> docker search ubuntu
NAME
                                                                                                                                                                                                                                       AUTOMATED
                                                                                                         Ubuntu is a Debian-based Linux operating sys...
Docker image to provide HTML5 VNC interface ...
 ubuntu
                                                                                                                                                                                                                    [OK]
dorowu/ubuntu-desktop-1xde-vnc
                                                                                                                                                                                                                                        [OK]
                                                                                                                                                                                                 538
                                                                                                         WebSphere Liberty multi-architecture images ...
Dockerized SSH service, built on top of offi...
Ubuntu container with "headless" VNC session...
 websphere-liberty
rastasheep/ubuntu-sshd
                                                                                                                                                                                                                    гок 1
                                                                                                                                                                                                                                        [OK]
 ubuntu-upstart
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mysq1-5
                                                                                                         Upstart is an event-based replacement for th... ubuntu-16-nginx-php-phpmyadmin-mysql-5
                                                                                                                                                                                                                   гок 1
                                                                                                                                                                                                 110
                                                                                                                                                                                                                                        [OK]
                                                                                                         Open Liberty multi-architecture images based... debootstrap --variant=minbase --components=m...
 open-liberty
  buntu-debootstrap
i386/ubuntu
nuagebec/ubuntu
                                                                                                         Ubuntu is a Debian-based Linux operating sys... Simple always updated Ubuntu docker images w...
                                                                                                                                                                                                                                        [OK]
landlinternet/ubuntu-16-apache-php-5.6
landlinternet/ubuntu-16-apache-php-7.0
landlinternet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10
landlinternet/ubuntu-16-nginx-php-5.6-wordpress-4
landlinternet/ubuntu-16-nginx-php-5.
                                                                                                                                                                                                                                        [OK]
[OK]
[OK]
[OK]
[OK]
                                                                                                          ubuntu-16-apache-php-5.6
                                                                                                          ubuntu-16-apache-php-7.0
                                                                                                          ubuntu-16-nginx-php-phpmyadmin-mariadb-10
                                                                                                         ubuntu-16-nginx-php-5.6-wordpress-4
ubuntu-16-nginx-php-5.6
                                                                                                         ubuntu-16-apache-php-7.1
A quick freshening-up of the base Ubuntu doc...
ubuntu-16-nginx-php-7.0
Ubuntu 16.04 image for GPDB compilation
landlinternet/ubuntu-16-apache-php-7.1
pivotaldata/ubuntu
                                                                                                                                                                                                                                        гокт
 landlinternet/ubuntu-16-nginx-php-7.0
                                                                                                                                                                                                                                        [OK]
pivotaldata/ubuntu16.04-build
 landlinternet/ubuntu-16-php-7.1
                                                                                                          ubuntu-16-php-7.1
 smartentry/ubuntu
landlinternet/ubuntu-16-sshd
                                                                                                          ubuntu with smartentry
                                                                                                                                                                                                                                        [OK]
                                                                                                         Ubuntu images for GPDB development ubuntu-16-rspec
pivotaldata/ubuntu-gpdb-dev
landlinternet/ubuntu-16-rspec
PS C:\WINDOWS\system32> docker pull ubuntu:16:04
                                                                                                                                                                                                                                        гок 1
invalid reference format
Invalur Ference Tombod
PS C:\WINDOWS\system32> docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce60046fa: Pull complete
55a738a15540: Pull complete
5387398353-90. Full Complete
e19cf0706c62: Pull complete
de4cdd6c27d1: Pull complete
Digest: sha256:9775877f420d453ef790e6832d77630a49b32a92b7bedf330adf4d8669f6600e
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04
```

```
PS C:\WINDOWS\system32> docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10
PS C:\WINDOWS\system32> docker images
REPOSITORY
            TAG
                       IMAGE ID
                                      CREATED
                                                    SIZE
             16.04
                       9ff95a467e45
                                                    135MB
ubuntu
                                      2 weeks ago
             16.10
                       7d3f705d307c
                                      3 years ago
                                                    107MB
PS C:\WINDOWS\system32> docker rmi 31005225a745
Error: No such image: 31005225a745
PS C:\WINDOWS\system32> docker rmi ubuntu:16.10
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e
PS C:\WINDOWS\system32> docker images
                       IMAGE ID
REPOSITORY
                                      CREATED
             TAG
                                                    ST7F
             16.04
                       9ff95a467e45
                                                    135MB
ubuntu
                                      2 weeks ago
```

2. Running our container

```
C:\WINDOWS\system32> docker run ubuntu:16.04 /bin/echo
Hello world!
PS C:\WINDOWS\system32> docker ps
CONTAINER ID IMAGE
                           COMMAND CREATED STATUS
                                                                  PORTS
                                                                              NAMES
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID IMAGE COMMANI
e4513a57e711 ubuntu:16.04 "/bin/o
                                   COMMAND
                                                                  CREATED
                                                                                       STATUS
                                                                                                                         PORTS
                                                                                                                                     NAMES
                                    "/bin/echo 'Hello wo..." 24 seconds ago
                                                                                       Exited (0) 23 seconds ago
                                                                                                                                     keen_snyder
PS C:\WINDOWS\system32> docker run ubuntu:16.04 /bin/bash
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID IMAGE COMMAND CRE
845874fceda2 ubuntu:16.04 "/bin/bash" 20
e4513a57e7l1 ubuntu:16.04 "/bin/echo 'Hello wo..." 2 m
                                                                                                                         PORTS
                                                                  CREATED
                                                                                       STATUS
                                                                                                                                     NAMES
                                                                  20 seconds ago
                                                                                       Exited (0) 19 seconds ago
Exited (0) 2 minutes ago
                                                                                                                                     clever_bartik
                                                                  2 minutes ago
                                                                                                                                     keen_snyder
 PS C:\WINDOWS\system32> docker run -it ubuntu:16.04 /bin/bash
 oot@4ea639f07756:/# pwd
 oot@4ea639f07756:/# 1s
 oot@4ea639f07756:/# exit
PS C:\WINDOWS\system32> docker run -d ubuntu:16.04 /bin/sleep 3600
5b4577d99008c620abec73d7b8b5a132751ef3120e9df35d469e387f097b45b2
PS C:\WINDOWS\system32> docker ps
                 IMAGE
ubuntu:16.04
CONTAINER ID
                                                                                                                PORTS
                                       COMMAND
                                                                                          STATUS
                                                                                                                             NAMES
                                                                   CREATED
                                      "/bin/sleep 3600" 12 seconds ago
5b4577d99008
                                                                                         Up 11 seconds
                                                                                                                             charming_lovelace
```

```
PS C:\WINDOWS\system32> docker exec -it be7 /bin/bash
Error: No such container: be7
PS C:\WINDOWS\system32> docker exec -it 5b4 /bin/bash
root@5b4577d99008:/# ps aux
           PID %CPU %MEM VSZ
                                    RSS TTY
                                                  STAT START
USER
                                                                 TIME COMMAND
            1 0.0 0.0 4372 656 ?
8 0.1 0.0 18232 3212 pts/0
18 0.0 0.0 34420 2800 pts/0
                                                  Ss 17:40
Ss 17:45
                                                                0:00 /bin/sleep 3600
root
                                                                0:00 /bin/bash
oot
                                                        17:46
oot
                                                                 0:00 ps aux
root@5b4577d99008:/# exit
exit
PS C:\WINDOWS\system32> docker ps
CONTAINER ID
              IMAGE
                                COMMAND
                                                      CREATED
                                                                       STATUS
                                                                                       PORTS
                                                                                                   NAMES
5b4577d99008
               ubuntu:16.04
                               "/bin/sleep 3600"
                                                      6 minutes ago Up 6 minutes
                                                                                                   charming_lovelace
```

```
PS C:\WINDOWS\system32> docker stop 5b45
5b45
PS C:\WINDOWS\system32> docker ps
CONTAINER ID
                                      COMMAND
                                                                      CREATED
                                                                                            STATUS
                                                                                                                                 PORTS
                                     "/bin/sleep 3600"
"/bin/bash"
"/bin/bash"
                                                                                            Exited (137) 8 seconds ago
Exited (0) 8 minutes ago
Exited (0) 10 minutes ago
                                                                      7 minutes ago
5b4577d99008
                   ubuntu:16.04
                                                                                                                                              charming_lovelace
                                                                      9 minutes ago
                                                                                                                                              cranky_burnell
clever_bartik
lea639f07756
                   ubuntu:16.04
                                                                     10 minutes ago
12 minutes ago
845874fceda2
                  ubuntu:16.04
                  ubuntu:16.04
                                     "/bin/echo 'Hello wo..."
                                                                                            Exited (0) 12 minutes ago
 4513a57e711
                                                                                                                                              keen_snyder
```

3. Removing containers

```
C:\WINDOWS\system32>
ONTAINER ID IMAGE
                                    r ps -a
COMMAND
CONTAINER ID
                                                                   CREATED
                                                                                                                           PORTS
                                                                                                                                       NAMES
                                                                                       Exited (137) 2 minutes ago
Exited (0) 10 minutes ago
Exited (0) 12 minutes ago
Exited (0) 14 minutes ago
5b4577d99008
                  ubuntu:16.04
                                    "/bin/sleep 3600"
                                                                   9 minutes ago
                                                                                                                                       charming_lovelace
                                    "/bin/bash"
                                                                   10 minutes ago
                                                                                                                                       cranky_burnell
clever_bartik
4ea639f07756
                 ubuntu:16.04
                                    "/bin/bash"
845874fceda2
                 ubuntu:16.04
                                                                   12 minutes ago
                 ubuntu:16.04
                                   "/bin/echo 'Hello wo..."
                                                                   14 minutes ago
                                                                                                                                       keen_snyder
e4513a57e711
PS C:\WINDOWS\system32> docker rm 5b45
5h45
PS C:\WINDOWS\system32> <mark>docker run --rm ubuntu:16.04 /bin/echo '</mark>Hello and goodbye!'
Hello and goodbye!
PS C:\WINDOWS\system32> docker ps
CONTAINER ID
                 TMAGE
                                    COMMAND
                                                                   CREATED
                                                                                       STATUS
                                                                                                                          PORTS
                                                                                                                                      NAMES
                 ubuntu:16.04
                                    "/bin/bash"
                                                                   12 minutes ago
                                                                                       Exited (0) 11 minutes ago
Exited (0) 13 minutes ago
                                                                                                                                      cranky_burnell
 lea639f07756
 45874fceda2
                 ubuntu:16.04
                                   "/bin/bash"
                                                                   13 minutes ago
                                                                                                                                      clever_bartik
 4513a57e711
                  ubuntu:16.04
                                    "/bin/echo 'Hello wo..."
                                                                   15 minutes ago
```